

PROGRAM

Sunday Evening, 5 November 2000

Registration: 5:00 pm to 7:00 pm
Set Up Poster: 1:00 pm to 5:00 pm

Location: Ballroom Foyer Registration Desk A/B
Location: Mezzanine - Salon 5 & 6

Monday Morning, 6 November 2000

6:30 am **Registration:**
7:00 am **Set Up Poster Presentations:**

Location: Ballroom Foyer Registration Desk A/B
Location: Mezzanine - Salon 5 & 6

8:00 am **PLENARY SESSION: Welcome** **Location: Ballroom B**
Moderator: David Riggs
8:00-8:10 **Welcome David Riggs, MBAO, Chief Executive Officer**
8:10-8:20 **Welcome Steven Rutz, Director, Florida Department of Agriculture and Consumer Services**

8:20-12:30 **PLENARY SESSION: Methyl Bromide OPD Symposium**
Moderator: Tom Duafala
8:20-8:30 **Tom Duafala-Introduction to ODP Symposium**
8:30-8:50 **Jim Butler-Methyl Bromide Sources and Sinks; Agricultural Contributions**
8:50-9:10 **Jose Rodriguez- ODP of Methyl Bromide**
9:10-9:30 **Ed Ruckert-Control of Methyl Bromide Under Montreal Protocol, Clean Air Act and Ramifications**
9:30-9:50 **Discussion**
9:50-10:00 **Gary Obenauf-Housekeeping**

10:00 am – 10:30 am **Break** **Location: Ballroom Foyer**

10:30 am – 12:30 noon **Location: Ballroom B**
PLENARY SESSION – Constraints to Alternatives
Moderator: Dan Botts
10:30-10:50 **Peter Caulkins-EPA/OPP-Data and Review Requirements for Alternatives**
10:50-11:10 **Paul Helliker-CalEPA/DPR-California Regulatory Requirements for Alternatives and Methyl Bromide Regulations**
11:10-11:30 **Bruce Houtman-Dow AgroSciences-Marketplace and Business Constraints in Developing Alternatives**
11:30-11:50 **Wesley Roan-6-L's Tomato, Inc.-Constraints to Adoption of Alternatives at the Grower Level**
11:50-12:10 **Jim Bair-North American Millers Association-Issues for Alternatives in Commodity and Structural Uses**
12:10-12:30 **Discussion**

12:30 until 1:30 pm **LUNCH BREAK**

Monday Afternoon, 6 November 2000, Concurrent Sessions

Registration:		Location: Mezzanine Foyer	
Preplant Session: Submitted Papers Government Sponsored Alternatives Research Moderator: Roy Gingery 1:30-1:50 Huettel, Robin (1)-Methyl Bromide Transition Program Competitive Grant 1:50-2:10 Norton, Jack (2)- Review of IR-4 Methyl Bromide Alternative Programs for Minor Crops 2:10-2:30 Nelson, Mike (3)-Results from 1999-2000 USDA IR-4 MBA Field Trials in CA and FL Strawberries 2:30-2:50 Olsen, Bernard (4)-Results from 1999-2000 USDA IR-4 MBA Field Trials in CA and FL Tomatoes 2:50-3:00 Discussion of Problems with Implementation of the Alternatives		Loc: Salon 3 & 4	
Postharvest Session: Submitted Papers Fumigants and Phytotoxicity Moderator: Tom Phillips 1:30-1:50 Annis, Peter (70)-Ethyl Formate: A Fumigant with Potential for Rapid Action 1:50-1:10 Dwinell, David (71)-Effect of Methyl Bromide on <i>Bursaphelenchus xylophilus</i> in Pine Wood 2:10-2:30 Griffith, Tom (72)-Propylene Oxide, A Registered Fumigant, A Proven Insecticide 2:30-2:50 Taylor, Robert (6)-Demonstration Projects in Southeast Asia 2:50-3:00 Discussion of Problems with Implementation of the Alternatives		Loc: Salon 7 & 8	
3:00 pm – 3:30 pm		Break	
		Location: Salon 5 & 6	
Preplant Session: Submitted Papers Integrated Crop Production/Alternative-New Products Moderator: Ian Porter 3:30-3:50 Chaverri, Fabio (5)-Methyl Bromide Alternatives in Costa Rica: Demonstration Projects on Melon and Cut Flowers 3:50-4:10 Fravel, Deborah (7)-Population Structure of <u>Fusarium</u> <u>Oxysporum</u> in Conventional and Organic Tomato Production in Florida 4:10-4:30 Rodriguez-Kabana, Rodrigo (8)-Nematicidal and Herbicidal Properties of Liquid Formulation of Potassium Azide 4:30-4:50 Ndalut, Paul (69)-Evaluation of Natural Products as Possible Alternatives to Methyl Bromide in Soil Fumigation 4:50-5:00 Discussion of Problems with Implementation of the Alternatives		Loc: Salon 3 & 4	
Preplant Session: Submitted Papers Strawberry-Alternatives Moderator: Christopher Winterbottom 3:30-3:50 Duniway, John (9)-Some Chemical, Cultural, and Biological Alternatives to Methyl Bromide Fumigation of Soil for Strawberry 3:50-4:10 Lopez-Aranda, Jose (10)-Three Years of Short-Term Alternatives to MB on Huelva Strawberry 4:10-4:30 Martinez, Cecil (11)-Strawberry Production with Methyl Bromide Alternatives: A Farmer's Perspective 4:30-4:50 Eayre, Cynthia (12)-Alternatives to Methyl Bromide in Strawberries and Peaches 4:50-5:00 Discussion of Problems with Implementation of the Alternatives		Loc: Salon 7 & 8	
5:30 pm – 6:30 pm		POSTER SESSION	
6:30 pm – 8:00 pm		RECEPTION	
		Moderator: William Thomas Location: Salon 5 & 6 Location: Mezzanine Foyer & Salon 5 & 6	

Tuesday Morning, 7 November 2000, Concurrent Sessions

Tuesday Morning, 7 November 2000, Concurrent Sessions			
7:00 am	Registration:	Location: Mezzanine Foyer	
Preplant Session: Submitted Papers Alternatives in Perennial Crops Moderator: Don Dickson 8:00-8:20 Fuentes-Borquez, Patricia (13)-Plantpro 45™ as an Alternative for Nematode Control in Chilean Grape Crops 8:20-8:40 Schneider, Sally (14)-Alternatives for Vineyard Replant and Grapevine Nurseries 8:40-9:00 Nyczepir, Andrew (15)-Evaluation of Peach Rootstocks for Management of Root-Lesion Nematode in the Southeast 9:00-9:20 Trout, Tom (16)-Fumigation and Fallowing Effects on Replant Problems in California Peach 9:20-9:40 McKenry, Michael (17)-IPM-Based Guidelines for Replanting Prunus Orchards in 2000 without Methyl Bromide 9:40-10:00 Discussion of Problems with Implementation of the Alternatives		Loc: Salon 3 & 4	Preplant Session: Submitted Papers Biofumigation Moderator: Nancy Kokalis-Burelle 8:00-8:20 Bianco, Vittorio (18)-Biofumigation in Australian Horticulture: An Integrated Approach to MB Replacement 8:20-8:40 Hafez, Saad (19)-Biofumigation and Basamid-An Alternative Integrated Approach to Methyl Bromide for Vegetable and Fruit Production in Lebanon 8:40-9:00 Rodriguez-Kabana, Rodrigo (20)-Nematicidal and Herbicidal Properties of Furfural-Based Biofumigants 9:00-9:20 Rodriguez-Kabana, Rodrigo (22)-Comparative Study on the Nematicidal Activities of Garlic and Mustard Oils 9:20-10:00 Discussion of Problems with Implementation of the Alternatives
10:00 am – 10:30 am		Break	Location: Salon 5 & 6
Preplant Session: Submitted Papers Integrated Pest Management and Soil Amendments Moderator: Joe Noling 10:30-10:50 Porter, Ian (23)-Plant-Back, IGR and Soil Health Influences the Selection of MB Alternatives in Australia 10:50-11:10 Sances, Frank (24)-Conventional and Organic Alternatives to Methyl Bromide on California Strawberries 11:10-11:30 Ajwa, Husein (25)-Strawberry Growth and Yield with Three Years of Drip Fumigation 11:30-11:50 Minuto, Andrea (26)-Preliminary Results on Application of Ammonia and Organic Amendments for Soil Disinfestation in Northern Italy 11:50-12:00 Discussion of Problems with Implementation of the Alternatives		Loc: Salon 3 & 4	Postharvest Session: Submitted Papers Structural and Commodity Fumigation Moderator: Larry Zettler 10:30-10:50 Roesli, Rennie (73)-Insect Populations Before and After Heat Treatment of a Pilot Flour Mill 10:50-11:10 Williams Robert (74)-Monitoring for Precision Fumigant Application in Food-Processing Plants 11:10-11:30 Bell, Chris (75)-Sulfuryl Fluoride to Replace Methyl Bromide Use in the Flour Milling Industry 11:30-11:50 Waterford, C. (76)-A New Formulation of Aluminium Phosphide Providing Controlled Release of Phosphine 11:50-12:00 Discussion of Problems with Implementation of the Alternatives
12:00 noon – 1:00 pm		Lunch	

Tuesday Afternoon, 7 November 2000, Concurrent Sessions

Registration:

Location: Mezzanine Foyer

<p>Preplant Session: Submitted Papers Loc: Salon 3 & 4 Alternative Fumigants-New Products (Propargyl Bromide) Moderator: Tom Trout 1:00-1:20 Rodriguez-Kabana, Rodrigo (28)-Evaluation of the Herbicidal and Nematicidal Properties of Propargyl Bromide 1:20-1:40 Dungan, Robert (29)-Propargyl Bromide: Preliminary Efficacy and Environmental Results 1:40-2:00 Noling, Joe (30)-Impacts of Alternative Fumigants on Soil Pest Control and Tomato Yield 2:00-2:20 Dungan, Robert 2:20-3:00 Discussion of Problems with Implementation of the Alternatives</p>	<p>Preplant Session: Submitted Papers Loc: Salon 7 & 8 Cultural Alternatives Moderator: Erin Rosskopf 1:00-1:20 De Santis, Massimiliano (116)-Economic Impacts of the Methyl Bromide Ban on the California Strawberry Industry: A Market Level Analysis 1:20-1:40 Martin, Frank (32)-Management of Root Diseases of Strawberry 1:40-2:00 Louws, Frank (33)-Compost as an Alternative to Methyl Bromide in Plasticulture Strawberry Production 2:00-2:20 McSorley, Robert (34)-Cover Crops for Management of Root-Knot Nematodes 2:20-2:40 Louws, Frank (35)-Chemical Alternatives to Methyl Bromide for Strawberry Production in North Carolina 2:40-3:00 Discussion of Problems with Implementation of the Alternatives</p>
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3:00 pm – 3:30 pm

Break

Location: Salon 5 & 6

<p>Preplant Session: Submitted Papers Loc: Salon 3 & 4 Alternative Fumigants-New Products (Iodomethane) Moderator: Jim Gilreath 3:30-3:50 Allan, Michael (36)-TM-425 (Iodomethane), Development and Regulatory Update 3:50-4:10 Rodriguez-Kabana, Rodrigo (37)-Pesticidal Properties of Volatile, Low Molecular Weight, Iodinate Hydrocarbons 4:10-4:30 Sims, James (38)-Methyl Iodide Field Application via Drip Irrigation 4:30-4:50 Gilreath, Jim (39)-Nutsedge Control with Reduced Rates of Methyl Bromide and Virtually Impermeable Film Mulch 4:50-5:00 Discussion of Problems with Implementation of the Alternatives</p>	<p>Postharvest Session: Submitted Papers Loc: Salon 7 & 8 Fumigants, Residues and Non-Chemical Alternatives Moderator: Shlomo Navarro 3:30-3:50 Sabio, Glory (77)-Control of Storage Pests in the Tropics Using Sealed Storage 3:50-4:10 Ross, Ralph (78)-Status of the Current Food Irradiation Expansion Program in Brazil 4:10-4:30 Prabhakaran, Suresh (79)-A model Simulating Stored Product Insect Pest Population Dynamics and Insecticide Resistance Potential in Food Processing Plants 4:30-4:50 Schneider, Brian (80)-Vikane Gas Fumigant Quarantine Treatments Present Status & Future Potential 4:50- 5:00 Discussion of Problems with Implementation of the Alternatives</p>
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Wednesday Morning, 8 November 2000, Concurrent Sessions

7:00 am	Registration:	Location: Mezzanine Foyer
Preplant Session: Submitted Papers Alternative Fumigants (1,3-D) Moderator: Husein Ajwa 8:00-8:20 Eger, Joe (40)-Efficacy of Telone Products in Florida Crops: A Seven Year Summary 8:20-8:40 Gilreath, James (41)-Soilborne Pest Control in Tomato Followed by Cucumber with 1,3-D + Chloropicrin and Solarization 8:40-9:00 Locascio, Salvatore (42)-Broadcast vs In-Row Application of 1,3-D Plus Chloropicrin as an Alternative for Tomato Fumigants 9:00-9:20 Minuto, Andre (43)-Application of Chloropicrin + 1,3-Dichloropropene Through Soil Injection in Northern Italy 9:20-9:40 Houtman, Bruce (44)-Telone® Soil Fumigants: Regulatory Status, Strategy and Future 9:40-10:00 Discussion of Problems with Implementation of the Alternatives		Preplant Session: Submitted Papers To be Used as Needed (will be announced at conference) Moderator: Mike Aerts 8:00-8:20 8:20-8:40 8:40-9:00 9:00-9:20
10:00 am – 10:30 am		Break
		Location: Salon 5 & 6
Preplant Session: Submitted Papers Alternative Fumigants (1,3-D) and (Chloropicrin) Moderator John Duniway 10:30-10:50 Lamberti, Franco (45)-1,3-D A Valid Alternative to Methyl Bromide for the Control of Plant Parasitic Nematodes 10:50-11:10 Weiss, Anthony (46)-Improvements to Telone® Application 11:10-11:30 Minuto, Andrea (47)-Chloropicrin Application in Italy by Soil Injection and Drip Irrigation 11:30-11:50 Keen, David (48)-Effect of Organocide on Suppression of Nematode Population 11:50-12:00 Discussion of Problems with Implementation of the Alternatives		Postharvest Session: Submitted Papers Monitoring, Carbon Dioxide and Vacuum Moderator: Charles Burks 10:30-10:50 Emekci, Mevlut (81)-Carbon Dioxide Fumigation as a Methyl Bromide Alternative for the Dried Fig Industry 10:50-11:10 Navarro, Shlomo (82)- Insect Control Using Vacuum or CO ₂ in Transportable Flexible Liners 11:10-11:30 Phillips, Thomas (83)-Application of Vacuum to Control Postharvest Insect Pests 11:30-11:50 Campbell, James (84)-Monitoring Pest Populations Inside and Outside Food Processing Facilities 11:50-12:00 Discussion of Problems with Implementation of the Alternatives
12:00 noon – 1:00 pm		Lunch

Wednesday Afternoon, 8 November 2000, Concurrent Sessions

Registration:		Location: Mezzanine Foyer	
Preplant Session: Submitted Papers Alternative Fumigants (Metam Sodium) Moderator: Michael McKenry 1:00-1:20 Haglund, William (49)-Metam Sodium and Metam Combinations A Viable Replacement for Methyl Bromide 1:20-1:40 McMillan, Robert (50)-Effect of Metam Sodium and Methyl Bromide on Root-Knot, Nutsedge and Dampoff on Cucumber cv. Dasher II 1:40-2:00 Carey, Bill (51)-Producing Southern Pine Seedlings with Methyl Bromide Alternatives 2:00-2:20 Sullivan, David (53)-Metam Sodium Sealing Methods to Increase Dose of Biocide and Improve Efficacy 2:20-3:00 Discussion of Problems with Implementation of the Alternatives		Preplant Session: Submitted Papers Soil Amendments and Physical Treatments Moderator: Dan Chellemi 1:00-1:20 Brodie, Bill (54)-Replacing Methyl Bromide with a Steam Treatment in the Golden Nematode Control Program 1:20-1:40 D'Addabbo, Trifone (55)-Effect of Olive and Grape Pomace in the Control of Root-Knot Nematodes 1:40-2:00 Martin, Christian (56)-Biodisinfestation and Solarization for Vegetables in South Roussillon 2:00-2:20 Sato, Dwight (57)-Sunn Hemp "Tropic Sun" as a Cover Crop in Edible Ginger Production 2:20-2:40 Amadioha, A.C. (58)-Control of Fusarium Wilt of Tomato by Combination of Solarization, Methyl Bromide 2:40-3:00 Discussion of Problems with Implementation of the Alternatives	
3:00 pm – 3:30 pm		Break	
		Location: Salon 5 & 6	
Preplant Session: Submitted Papers Alternatives-New Products (PlantPro45, Harpin Protein) Moderator: Clyde Elmore 3:30-3:50 Ajwa, Husein (59)-Distribution of Drip Applied Fumigants Under Various Conditions 3:50-4:10 Adams, Pam (60)-Plantpro45™: A Potential Low Risk Alternative for Control of Soil-Borne Plant Pathogens 4:10-4:30 Kokalis-Burelle, Nancy (61)-Effects of Reduced Risk Alternatives on Nematode Populations and Crop Yield 4:30-4:50 Wei, Zhangman (62)-Messenger: A New Tool for Pest Management 4:50-5:00 Discussion of Problems with Implementation of the Alternatives		Postharvest Session: Submitted Papers Biology, Chemical and Heat Treatments Moderator: Judy Johnson 3:30-3:50 Welker, Jeff (85)-Update on the Development of Sulfuryl Fluoride as an Alternative to Methyl Bromide 3:50-4:10 Wright, Jane (86)-Carbonyl Sulfide: Progress in Research and Commercialization of a New Commodity Fumigant 4:10-4:30 Wright, Jane (87)-Increasing Heating Rate and Decreasing Disinfestation Temperature for More Affordable Heat Disinfestation of Grain 4:30-4:50 Silhacek, Don (88)-Management of Moth Pests Infesting Processed Cereals: Biological Considerations 4:50-5:00 Discussion of Problems with Implementation of the Alternatives	

Thursday Morning, 9 November 2000, Concurrent Sessions

7:00 am		Registration:		Location: Mezzanine Foyer			
Preplant Session: Submitted Papers		Loc: Salon 3 & 4		Postharvest Session: Submitted Papers		Loc: Salon 7 & 8	
Herbicides and Other Alternatives				Microwave, Freezing and Radiation			
Moderator: Sal Locascio				Moderators: Lisa Neven			
8:00-8:20		Elmore, Clyde L. (63)-Weed, Soil Pathogen and Nematode Control in Microplots		8:00-8:20		Halverson, William (89)-Design of a High Power Microwave Applicator for the Control on Insects in Stored Product	
8:20-8:40		Webster, Ted (64)-Nutsedge (Cyperus spp.) Management in Cucurbits		8:20-8:40		Johnson, Judy (90)-Control of Cowpea Weevil, Callosobruchus maculatus, Using Freezing Temperatures	
8:40-9:00		Fennimore, Steven (65)-Weed Control Options in California Strawberry without Methyl Bromide		8:40-9:00		Menon, Anil (91)-Heat Sterilization – Can it Effectively Control Insects?	
9:00-9:20		Miller, Melanie (67)-Alternatives for Soil Treatments in Developing Countries: GTZ Project Results		9:00-9:20		Neven, Lisa (93)-Trials and Tribulations in the Development of Organic Quarantine Treatments	
9:20-9:40		Champon, Louis (68)-Dazitol The Replacement for Methyl Bromide Pre-Plant Usage		9:20-11:00		Discussion of Problems with Implementation of the Alternatives	
9:40-11:00		Discussion of Problems with Implementation of the Alternatives					
10:00 am – 10:30 am		Break				Location: Salon 5 & 6	
11:30 am-7:30 pm		Optional Field Tour of Florida Research Plots Sponsored by Florida Methyl Bromide Alternatives Research Taskforce					
		The tour is free but you need to sign up early as there are a limited number seats on the buses! Lunch will be provided.					

The End – Hope to see you next year in San Diego, California!

POSTER PRESENTATIONS

Titles

PREPLANT:

Bull, Carolee (94)-	Interaction Between Myxobacteria, Plant Pathogenic Fungi and Biocontrol Agents
Champon, Louis (117)	Developments in the Use of Virtually Impermeable Film for Mulch in Europe
Dungan, Robert (27)-	Products of Propargyl Bromide Degradation in Soil
Eayre, Cynthia (95)-	Control of Peach Replant Disorder
Elmore, Clyde (96)-	Solarization and Biofumigation for Field-Grown Flowers
Kobara, Yuso (97)-	Monitoring of Methyl Bromide Alternative Compounds in the Atmosphere
Lopez-Aranda, Jose (98)-	Three Years of Short-Term Alternatives to MB on Huelva Strawberries
Ma, Qingli (99)-	Temperature-Enhanced Efficacy of Methyl Isothiocyanate for Soilborne Pests Control
Marcotte, Michelle (100)-	Survey of Canadian Methyl Bromide Users
Miller, Melanie (101)-	Methyl Bromide Alternatives in Developing Countries: GTZ Experiences
Roozen, John (102)-	Application of Metam Sodium is the Key to Effective Pest Control
Roskopf, Erin (103)-	Biological Control Agents Under Development for Weed Management in Florida Vegetables
Sams, Carl (21)-	Allyl Isothiocyanate Released from <i>Brassica Juncea</i> Suppresses Mycelial Growth of <i>Sclerotium Rolfsii</i>
Thomas, Bill (104)-	2000 Update on Methyl Bromide Phase Out
Trout, Tom (105)-	Fumigant Use Trends in California
Zinati, Gladis (106)-	Solarization of Recycled Potting Media for Ornamental Production
Tyson, Shaine (107)-	Urban Biodiesel Production

POSTHARVEST:

Arthur, Frank (92)-	Effect of Heat Treatments on Efficacy of Residual Insecticides
Jenner, Joel (108)-	Effects of Fumigants and Aeration on Lemon and Nectarine Quality/Phytotoxicity
Burks, Charles (109)-	Seasonal Abundance of Insect Pests of Figs (<i>Ficus carica</i>) in California
Epsky, Nancy (110)-	Commercial EGPIC Insect Monitoring System for Management of Bulk Stored Grain
Graver, Jan (111)-	In-Transit Disinfestation in Freight Containers Using Carbon Dioxide: An Operations Manual
Griffith, Tom (112)-	Propylene Oxide, A Registered Fumigant, A Proven Insecticide
Zettler, Larry (113)-	Effect of Modified Atmosphere on Microflora and Respiration of California Prunes